

## AAEEBL Annual Conference - 2014

### Using Technology to Provide Multimodal Learning Opportunities and Enhance Student Engagement in Face-to-Face and Online Courses [poster]

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Examples of Assignments and Assessment Methods

#### Sample Group Project

##### ■ General Description

This comprehensive project requires you to create a data-driven, interactive Web application with PHP and MySQL. This project will allow you to convey a system from idea phase to implementation. The project will provide you with experience in designing and developing a Web application using the most popular software design pattern -- MVC. Furthermore, this team project will create a collaborative learning environment and thus will enrich your team-work experience.

Start the project by identifying a real-world system and then create a software system (a PHP Web application in this project) to model the real-world system. You will need to use OOP objects to model the system's underlying business logic. The system's presentation layer and business logic should be separated. The data layer of the application should be implemented with a MySQL database. The project will include three components: coding, documentation, and presentation. They make up 20% of your final course grade.

##### ■ Team Composition

This is a team project. Each team may freely choose three or four members from the class.

##### ■ Presentation and Promotion

Each team will need to present and promote your Web site to the whole class. The presentation should be between 10 to 15 minutes long and you will have 5 additional minutes for questions. Make PowerPoint Presentations, handouts if necessary. Think of yourself as a market person and think how you want to promote your site.

#### Grading Rubric

Team:

Member:

Activities	Points possible	Your points	Comments
Proposal	10		

First draft		5		
Second draft		5		
Final version	Documentation	10		
	Presentation	10		
	Coding			
	Site organization, navigation system, consistent style	5		
	OOP implementation, MVC design	10		
	AJAX technology	10		
	User authentication	5		
	Data layer integration	5		
	Error handling	5		
	Functionality, creativity, and performance	20		
<b>Total</b>		<b>100</b>		
<b>Adjusted total based on peer evaluation</b>				

## Class Participation Self-Evaluation

Learning is not a passive process. All learning requires active participation. Participation is required in this course and is worth 10% of your course grade. Your participation is assessed in the following areas in addition to your attendance. Use the scoring guide below to give yourself a class participation grade for this week's classes. Your instructor will also assess your participation using the same rubric. Your self-evaluation scores will be used as a reference when your class grade is determined by your instructor.

Name \_\_\_\_\_

Date \_\_\_\_\_

	<b>Developing, but below expectations (0 – 2 points)</b>	<b>Accomplished/ Meets expectations (3 points)</b>	<b>Exemplary/ Displays leadership (4 points)</b>	<b>Score</b>
<b>Engagement</b>	I infrequently or never contribute to class discussion, ask any relevant question, or respond to others' questions.	I contribute to class discussion, ask relevant questions, or respond to others' questions at least 2 times in each class.	I proactively and regularly contribute to class discussions, ask relevant questions, or respond to others' questions 3 or more times in each class.	
<b>Attention</b>	I sometimes do not pay attention/respectfully listen to my instructor or peers.	I rarely fail to pay attention/respectfully listen to my instructor or peers.	I actively and respectfully listen to my instructor and peers and maintain full engagement throughout class.	
<b>Behavior</b>	I sometimes display disruptive or inappropriate behavior in class. I sometimes use my smart phone or laptop to conduct course unrelated activities.	I rarely display disruptive or inappropriate behavior in class. I never use my smart phone or laptop to conduct course unrelated activities.	I never display disruptive or inappropriate behavior in class. I never use my smart phone or laptop to conduct course unrelated activities.	

## Peer Evaluation Form

The purpose of this form is for you to evaluate contribution made by each of your group members to the overall performance and success of your group's project. In making your assessments, please take into account following items:

- Item 1: The member contributed fair share of workload.
- Item 2: The member made good quality of contribution.
- Item 3: The member was reliable and well prepared for group meetings.
- Item 4: The member met deadlines set forth by the team.
- Item 5: The member showed great degree of cooperation with other group members.

Do not rate yourself. Rate other group members using a one to five point scale. Use the table below to record your ratings. Use one column for each member. ***Your ratings will not be disclosed to other students.*** Be honest in this evaluation!

(5=strongly agree, 1=strongly disagree)

Name			
Item 1			
Item 2			
Item 3			
Item 4			
Item 5			
Total points (25 maximum)			
Additional comments			

## Discussion Forums

In online courses: class is divided in half

Half of the students participate in the Discussion Forum questions for the odd-numbered Modules and the other half of the class participates in the Discussion Forum questions for the even-numbered Modules.

One of the questions for each weekly Module is to select a student from the previous Module and provide feedback on his/her responses to the Discussion Forum questions for the previous Module.

That way, students have more feedback than just what is provided by the faculty member and the TA.

As the semester moves forward, some of the students who provide the most robust responses tend to receive the most feedback from other students (an additional incentive) – and points are taken off if students do not provide this feedback.

Sample questions from courses:

- Go to the responses for the Discussion Forum questions for Module 9. Select one student's response. What were some of the student's comments about the role of physical and personnel security as part of an overall information security plan? What could a company face? What solutions or strategies did the student suggest? Are there other things the company could do that were not mentioned by the student or in the reading assignment?
- Go to the responses for the Discussion Forum questions for Module 6. Select one student's response. How would you describe this student's views on the ethical and legal issues with intellectual property especially as it relates to technology? Which journal article did the student summarize and what is one take-away point from this student's response to the article? What other issues need to be considered?

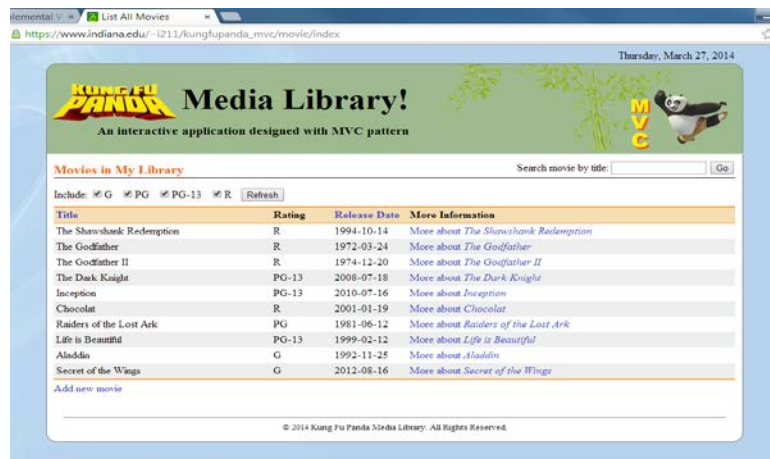
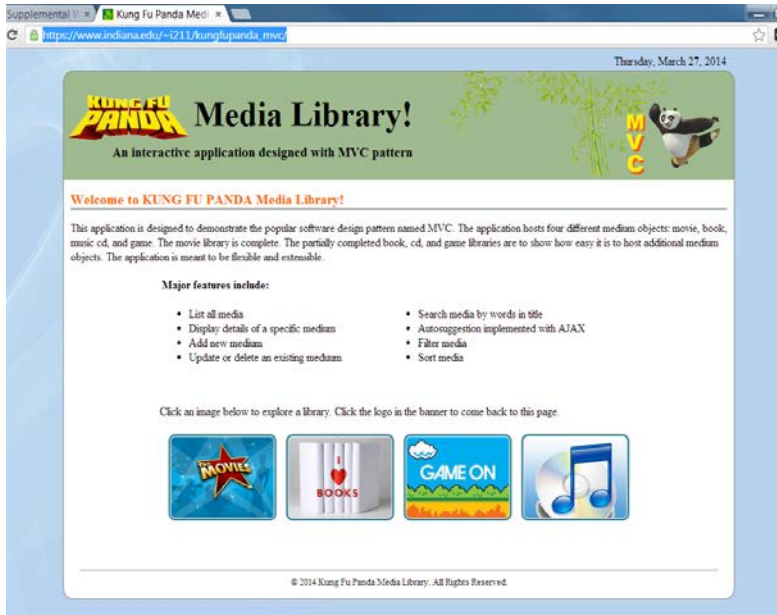
## Case Study

Pretend you have been hired as an Informatics/IT/Information Security professional for a medium-sized company, ABC Corporation, which has operations in California, Nevada and Arizona. ABC Corporation also has a location in Mexico. Mr. Michael Jones is ABC Corporation's President. Although he and his leadership team had previously been satisfied with their company's information security and privacy policies and practices, their confidence has been shaken by the recent hacking and other security breaches experienced by Target, Michael's and the some of the hotels in the Marriott chain. Mr. Jones has asked for a memorandum from you that he can share with his leadership team. The next board meeting for ABC Corporation is on Friday, March 14 at 5:00 p.m.

Please discuss some of the information security and privacy protections we need to have in place at ABC Corporation as outlined in the following questions.

1. The company's leadership team is especially interested in:
  - any requirements for security breach disclosure, notification and reporting at the state or federal level.
  - whether there are any laws that mandate encryption and if not, your assessment of whether encryption should be used anyway and in what situations.
  - what state and federal laws say about our need to protect health, financial and personal information about our employees.
2. With operations in Mexico, we also need information on that country's laws and regulations on information security and privacy.
3. What special considerations are needed for cloud computing, wireless and third-party vendors who may be providing services or entering our premises?
4. What suggestions can you make about our company's physical security measures?
5. What strategies for information security and privacy should be considered with respect to our employees?
6. What legal actions could unhappy customers take against us in the event of a data breach or other security measure?
7. What actions could other parties (such as the state attorneys general or the FTC) pursue?
8. What might the penalties be?
9. What other difficulties could our company face if there is a data breach or other security incident?
10. What are the legal and ethical duties of the officers and directors in protecting the company from data breaches and other security incidents? What are these duties, how are they breached and what is the standard of conduct?

## Creating Applications



## **Comparing Changes in Views from Beginning of Semester with End of the Semester (Pre- and Post-Testing)**

Step 1: Access your responses to the Pre-Test on Computer and Information Ethics and the Post-Test on Computer and Information Ethics through the Test and Survey link in OnCourse.

Step 2: Carefully compare your responses to the questions on the Pre-Test and Post-Test to see how your responses changed during the semester.

Step 3: Write a paper where you reflect on your responses:

1. Select three (3) questions where your response to the question did not change or changed only slightly or changed the least between the Pre-Test and the Post-Test.
  - What was the situation or scenario presented in the question?
  - Explain why your response to that situation or scenario did not change or changed only slightly or changed the least between the Pre-Test and Post-Test.
  - What other information or considerations might have influenced your response?
2. Select three (3) questions where your response to the question changed in a more significant way or changed the most between the Pre-Test and the Post-Test.
  - What was the situation or scenario presented in the question?
  - Explain why your response to that situation or scenario changed in a more significant way or changed the most between the Pre-Test and Post-Test.
  - What other information or considerations might have influenced your response?
3. As a whole, did your responses to the questions trend more harshly (finding the behaviors in the questions more likely to be illegal or unethical) or more liberally (finding the behaviors in the questions more likely to be ethical or acceptable) from the Pre-Test to the Post-Test?
  - If so, what accounted for your revised views?
  - If not, why did your views not show a trend in one direction or the other?
4. Do you believe that you are prepared to address the ethical situations that you might be confronted with as an informatics professional, an IT professional or a professional in whatever career field you are pursuing? Why or why not?
5. What other information/training/resources would be helpful in preparing you for making ethical decisions in your career? Please provide some suggestions.



## Working with Software: Accident Reconstruction

### Accident Description:

Plaintiff arrived at the pharmacy to pick up her prescription. She entered through the main entrance and crossed the front of the store. She proceeded to walk toward the candy aisle. Upon turning up the aisle, she tripped over shelving units which were placed on the floor. The fall resulted in the plaintiff's injuries.

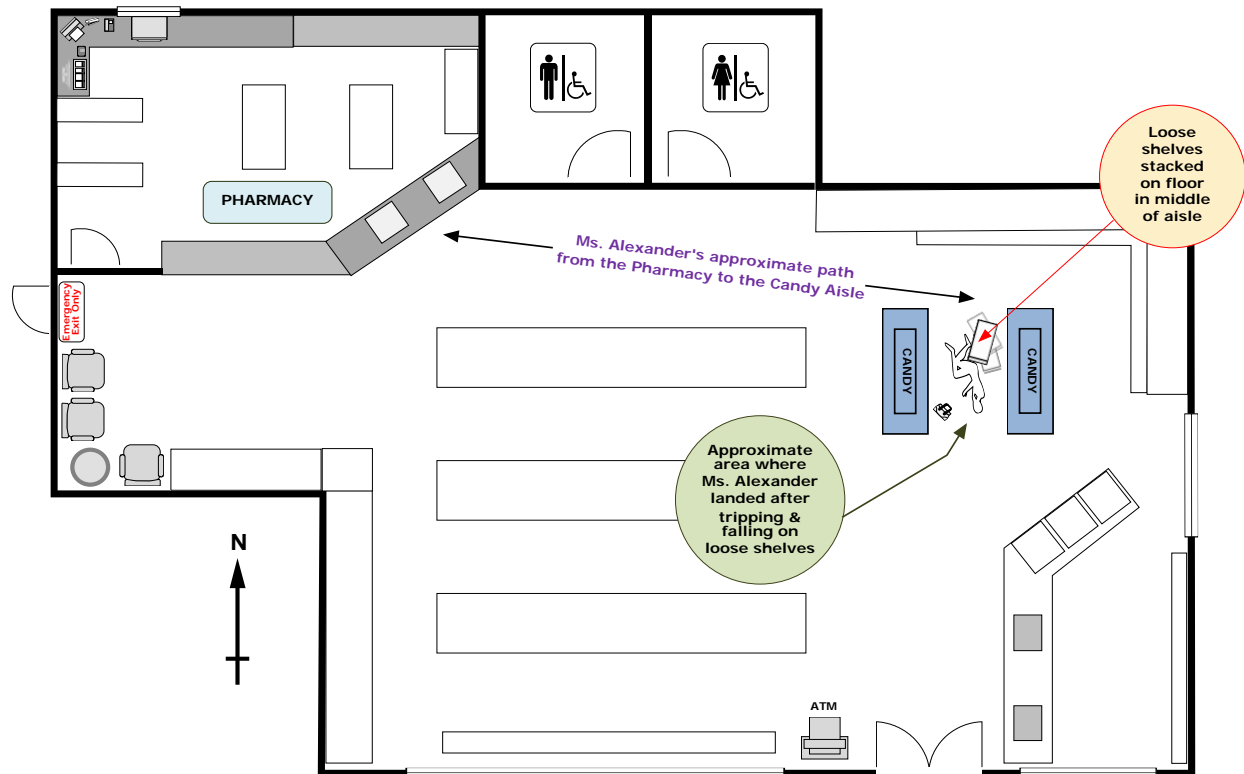
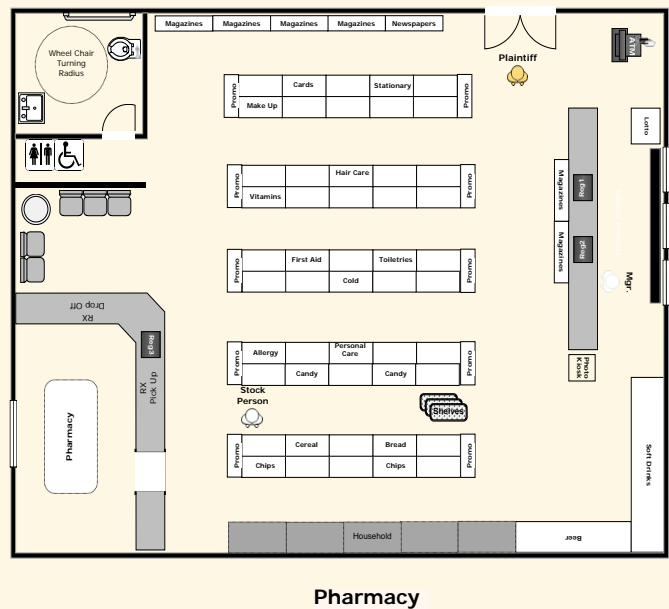
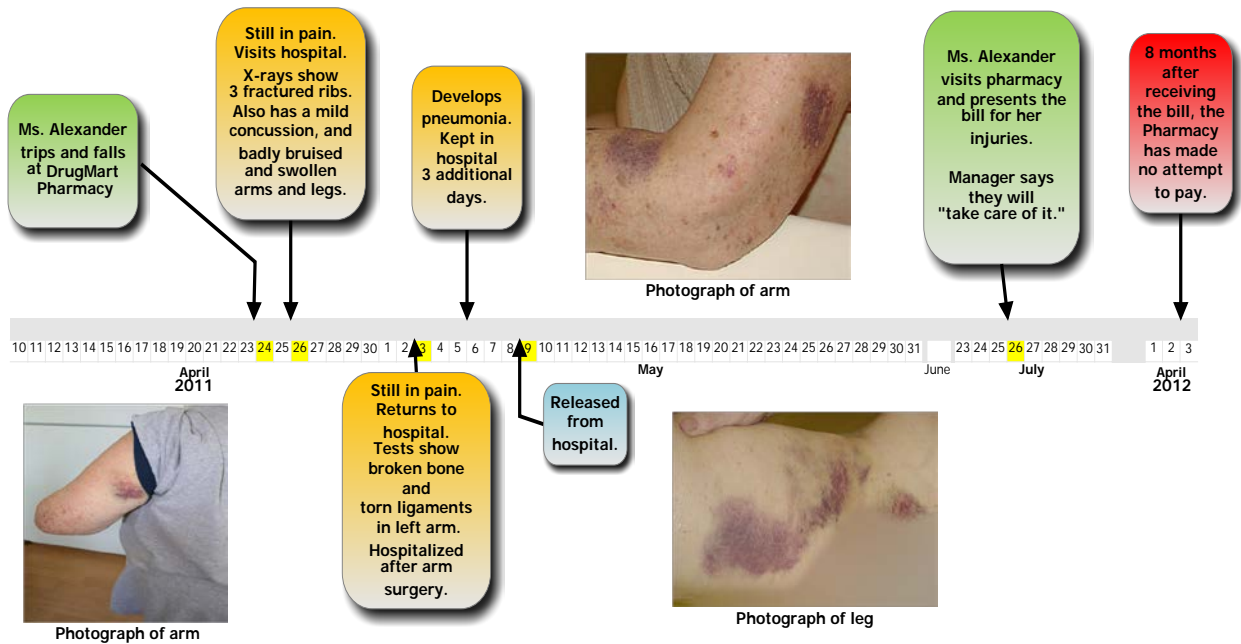
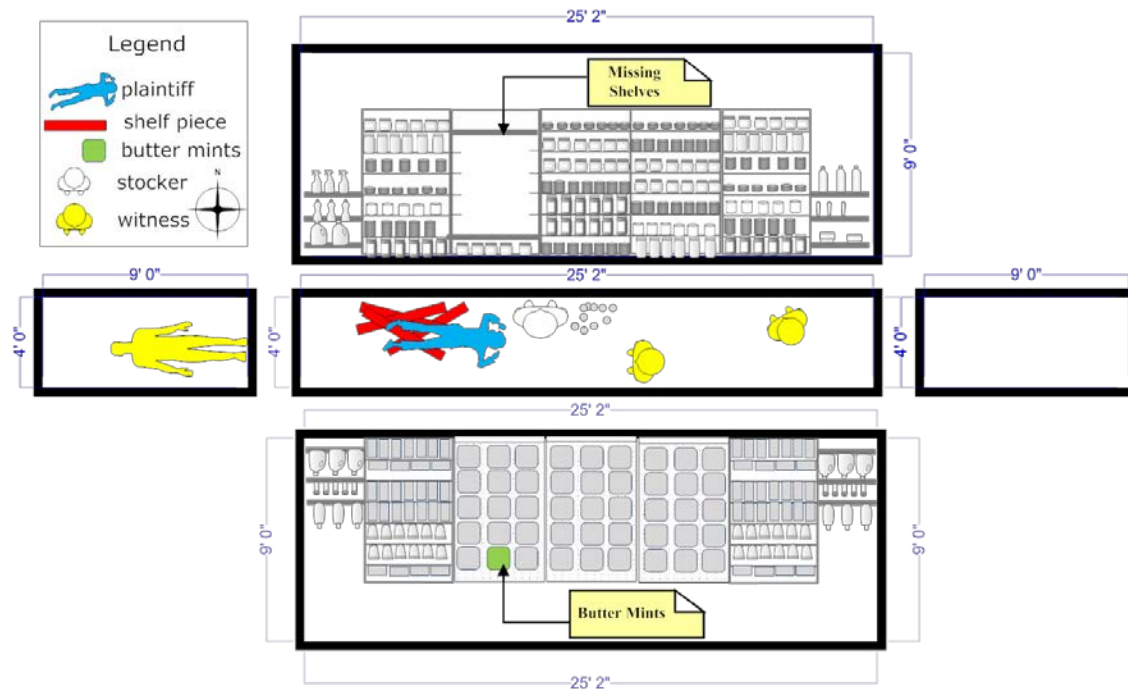


Illustration of DrugMart Pharmacy. All measurements in this and the illustrations to follow are approximate.

SmartDraw Academic Edition



## Working with Software: Midterm Project

This assignment corresponds to PULs 1C [Information Resources Skills], 2 [Critical Thinking] and 1A [Written, Oral and Visual Skills].

Using SmartDraw and the skills you have practiced in the tutorials in Sections 1-7 of *SmartDraw: A Hands-On Tutorial and Guide*, create a layered floor plan of the room where you use your computer. If you use a laptop, then choose the place you use most often. The goal is to accurately represent the information of the space and follow the specific directions of the assignment. We will be looking for attention to the following items:

- proficiency with the software
- ability to work with layers
- ability to communicate information visually
- accuracy of your floor plan when compared to the photo of the room
- completion of requested items in a professional manner
- your ability to follow all the directions
- generation of multiple files
- ability to follow a prescribed naming convention in the files

Include the following items in the floor plan:

- all doors and doorways
- all furniture arranged the way it is in the room
- all windows
- any special features (fireplace, wood stove, dehumidifiers, etc.)
- the appropriate flooring
- indicate the space you occupy while working (desk, table, couch, etc.)
- indicate the direction of the main traffic flow through the room
- label the room (living room, bedroom, etc.)
- indicate north
- include measurements of the walls (in feet and inches)
- correct scale of items (is the couch really 25 feet long or did you draw it out of proportion?)
- any other information you think would be relevant to understanding the space

Save the file as “yourlastname,first-floor.sdr” (replace yourlastname,first with your OWN last and first name, please.)

Also save the file as a JPG with the same naming convention.

Take 2-4 photographs of the room from opposite directions (entitled “yourlastname,first-photo.jpg”) for comparison with your illustrated floor plan.

Upload the files (.sdr, JPG, 2-4 photographs) to the Assignments link in OnCourse.

## Real-World Project: Business Plan

The Final Paper corresponds to PULs 3 [Integration and Application of Knowledge], 1A [Written, Oral and Visual Skills] and 1C [Information Resources Skills].

For this assignment, you will be writing a business plan to form a company of your choice (for-profit company or non-profit organization) using many of the resources that have been distributed and discussed in the course. Most business plans would be no more than 20 pages in length, excluding the cover page, table of contents and any appendices. Good luck!

1. Structure your business plan to include the following:

- Cover page (Identification, Date, Ownership, Non-Disclosure Statement)
- Table of Contents
- Executive Summary (1-2 pages)
- Body of the Plan – you can use the suggested format in the Appendix of *Entrepreneurship*, modified to fit the needs of your particular situation
- Financial Statements (be sure that you include all five statements – see *Entrepreneurship* for examples):
  - Balance Sheet
  - Income Statement
  - Statement of Cash Flow
  - Projected start-up costs
  - Break-even point calculation
- Appendices - For any detailed material, such as product designs, exhibits, logo, trademarks, licenses, letters, etc.
- Bibliography of any resource material that you used in developing your business plan

2. Statement of Reflection: What did you learn from writing your business plan? Is starting your own company (or non-profit organization) a viable career option for you at this time or in the future? After writing your business plan, are there any adjustments you need to make, such as in the products, programs or services you would offer, what you might charge, the income you need to make, etc.? What are the advantages and disadvantages of writing a business plan on your own versus paying a consultant to do so or using an "off the shelf" version?